GEOSCIENCE GROUP

GEOSCIENCE GROUP, INC.
BORING LOG

SHEET 1 OF 2

PROJECT NO. 6.529005T	ID. R-2610A	FED. NO. N/A	CO. Chatham	FIELD SUPERV. D. Hardister
SITE DESCRIPTION Site 1: Bridge on SBL US 421 over AC&WR				GROUND WATER (m)
BORING NO. B2-B	BORING LOCATION 18+13.7	OFFSET 5.2m LT	ALIGNMENT -L-	0 HR. N/M
COLLAR ELEV. 84.15 m	TOTAL DEPTH 25.02 m	NORTHING 200653.368	EASTING 583107.973	24 HR. 3.20
DRILL MACHINE CME 550x	DRILL METHOD HSA/NQ Wireline	HAMMER TYPE Automatic	FINAL CASING DEPTH 16.45 m	
DATE STARTED 10/9/02	COMPLETED 10/10/02	DRILLING FLUID DENSITY Pond Water	SURFACE WATER DEPTH N/A	

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	BLOWS PER 30 CM 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
84.15	0.00				Ground Surface Elev. 84.15 m				84.15	0.00
	1.07	6	8	9	17		D		Residual-Very Stiff to Hard Tan-Orange to Tan Fine Sandy SILT (A-5)	
	2.59	14	17	20	37		D			
80.25										3.90
	4.12	8	8	10	18	SS-5	27.6		Residual-Very Stiff Grey-Black Carbonaceous Fine Sandy SILT (A-5)	
78.75										5.40
	5.64	8	11	14	25		M		Residual-Very Stiff Grey Fine Sandy SILT (A-5)	
77.25										6.90
	7.16	7	12	13	25		M		Residual-Very Stiff Grey-Black Carbonaceous Fine Sandy SILT (A-4)	
	8.69	4	11	19	30		M			
74.15										10.00
	10.21	6	9	18	27		M		Residual-Very Stiff to Hard Grey to Red-Grey Fine Sandy SILT (A-4)	
	11.74	10	23	28	51		M			
70.75										13.40
	13.26	10	90/14		100/29		M		Weathered Rock-Red-Grey Weathered Triassic Mudstone	
	14.79	15	31	69/14	100/29		M			
67.70										16.45
	16.31	100/14			100/14		M		Weathered Rock-Red-Grey Severely Weathered Moderately Hard to Soft Friable and Moderately Indurated Triassic Mudstone with Close and Very Close Fracture Spacing and Thin Seams of Non-Crystalline Rock	
	17.39	100/03			100/03		M			
	18.91									

NCDOT_BORE11X17 GR020409.GPJ NCDOT2.GDT 1/7/03

GEOSCIENCE GROUP

GEOSCIENCE GROUP, INC.
BORING LOG

SHEET 2 OF 2

PROJECT NO. 6.529005T	ID. R-2610A	FED. NO. N/A	CO. Chatham	FIELD SUPERV. D. Hardister
SITE DESCRIPTION Site 1: Bridge on SBL US 421 over AC&WR				GROUND WATER (m)
BORING NO. B2-B	BORING LOCATION 18+13.7	OFFSET 5.2m LT	ALIGNMENT -L-	0 HR. N/M
COLLAR ELEV. 84.15 m	TOTAL DEPTH 25.02 m	NORTHING 200653.368	EASTING 583107.973	24 HR. 3.20
DRILL MACHINE CME 550x	DRILL METHOD HSA/NQ Wireline	HAMMER TYPE Automatic	FINAL CASING DEPTH 16.45 m	
DATE STARTED 10/9/02	COMPLETED 10/10/02	DRILLING FLUID DENSITY Pond Water	SURFACE WATER DEPTH N/A	

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	BLOWS PER 30 CM 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
		100/08					M		65.04 Non-Crystalline Rock-Red-Grey Moderately Severely Weathered Moderately Hard Moderately Indurated Triassic Mudstone with Close and Very Close Fracture Spacing	19.11
64.59									Weathered Rock-Red-Grey Severely Weathered Medium Hard and Soft Friable and Moderately Indurated Triassic Mudstone with Close and Very Close Fracture Spacing	19.56
	20.43	100/09			100/09		M			
63.29									Non-Crystalline Rock-Red-Grey Moderately and Moderately Severely Weathered Hard Moderately Indurated and Indurated Triassic Mudstone with Close Fracture Spacing	20.86
	21.95	100/04			100/04		M			
60.80										23.35
	23.47	100/09			100/09		M		Weathered Rock-Red-Grey Severely Weathered Medium Hard and Soft Friable and Moderately Indurated Triassic Mudstone with Close and Very Close Fracture Spacing	
59.16										24.99
	24.99	100/03			100/03		M			
59.13									Non-Crystalline Rock-Red-Grey Triassic Mudstone Boring Terminated @ Elev. 59.13m in Non-Crystalline Rock (Triassic Mudstone)	25.02

NCDOT_BORE11X17 GR020409.GPJ NCDOT2.GDT 1/7/03